

VEKUA, I.N., akademik

tonditions of momentless convex shells. Soob.AN Gruz.SSR 21 no.6:649-652 D '58. (MIRA 12:4)

1. AN SSSR, Matematicheskiy institut im. V.A. Steklova, Moskva. (Elastic plates and shells)

AUTHOR:

Boyarskiy, B.V. and Vekua, I.W.

38-22-2-2/8

TITLE:

Proof of the Rigidity of Piecewise-Regular Closed Convex Surfaces of Nonnegative Curvature (Dokazatel'stvo zhestkosti kusochno-regulyarnykh zamknutykh vypuklykh poverkhnostey neotritsatel noy krivizny)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya Matematicheskaya, 1958, %1 22, Nr 2, pp 165-176 (USSR)

ABSTRACT:

Let X = X (u,v) be the equation of a regular surface S which is limited by a finite number of piecewise smooth simple curves L_0, L_1, \dots, L_m . Furthermore let $\widetilde{Y} = \widetilde{Y}(u,v)$ and $\widetilde{Z} = \widetilde{Z}(u,v)$ be the fields of displacement and of rotation which correspond to an infinitely small deformation of the surface. Then it is $\overrightarrow{dY} = \overrightarrow{Z} \times \overrightarrow{dX}$, $\overrightarrow{dX} \cdot \overrightarrow{dY} = 0$, from which Blaschke [Ref 1] with the aid of the Ostrogradsky-formula obtains the following relation:

(1)
$$2 \iiint_{\mathbf{Z}} \overrightarrow{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}} \overset{\rightarrow}{\mathbf{Z}}$$

where L denotes the totality of the L, .

Card 1/ 2

Proof of the Rigidity of Piecewise-Regular Closed Convex 38-22-2-2/8 Surfaces of Nonnegative Curvature

The authors consider closed convex surfaces which are combined together from a finite number of regular surface elements with nonnegative Gauss curvature. By application of (1) (in a somewhat varied form) to each regular part of the surface and by addition the rigidity is proved at first for the case that the limiting contours of the single partial pieces are Jordan curves and then for the general case. At first conical points are excluded. Then it is shown by a limit passage that the proof even holds in presence of conical points. There are 2 references, 1 of which is Soviet, and 1 German.

SUBMITTED:

April 1, 1957

AVAILABLE:

Library of Congress

1. Surfaces-Mathematical analysis

C urd 2/2

16(1)

PHASE I BOOK EXPLOITATION

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SOV/2760

Vekua, Il'ya Nestorovich

Obobshchennyye analiticheskiye funktsii (Generalized Analytical Functions) Moscow, Fizmatgiz, 1959. 628 p. Errata slip inserted. 6,000 copies printed.

Eds.: B. V. Boyarskiy and E. G. Poznyak; Tech. Ed.: N. A. Tumarkina.

PURPOSE: This book is intended for students taking advanced university courses in mechanics and mathematics, Aspirants, and scientific workers.

COVERAGE: The author studies the fundamentals of the general theory of generalized analytic functions and gives certain applications of the theory to problems of differential geometry and the theory of shells. This book contains many results achieved by the author and his students which are published for the first time. The supplement to Chapter 4 was written by B. V. Boyarskiy. The author thanks V. S. Vinogradov, L. S. Klabukova, Sun Ho-sheng, Tong, Yon-

Card 1/9

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859310007-7"

chol Yu. P. Krivenkovyy, A. V. Bitsadze, B.	
I. 1. Danilyuk, and E. G. Poznyak for their help i the book. There are 97 references: 64 Soviet, 13 English, 8 French, 1 Rumanian, and 1 Italian.	n nnononina
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Sib. nat. share. 1 no.3: 221-222 8-2 '67. (Elia 14:2)

(Geometry, Differential)

(Functional equations)

BITSADZE, A.V., red.; VEKUA, I.N., red.; KUDRYAVTSEV, L.D., red.; MIGIRENKO, G.S., red.; RABOTNOV, Yu.N., red.; KHRISTIANOVICH, S.A., red.; ALEKSANDROVSKIY, B.H., red.; NAZARYANTS, T.F., red.; VYALYKH, A.M., tekhn. red.; LOKSHINA, O.A., tekhn. red.

[Some problems in mathematics and mechanics] Nekotorye problemy matematiki i mekhaniki. Novosibirsk, Izd-vo Sibirskogo otd-nie AN SSSR, 1961. 265 p. (MIRA 15:2)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. (Mathematics) (Mechanics)

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LAVRENT'YEY, M.A., otv.red.; MIKHAYLOV, G.K., red.; BITSADZE, A.V., red.; YKUA, I.W., red.; DZHANKLIDZZ, G.Yu., red.; LUR'YE, A.I., red.; MANDZHAVIDZE, G.F., red.; MIKHAYLOV, G.K., red.; SKDOV, L.I., red.; SOBOLEV, S.L., red.; SOKOLOVSKIY, V.V., red.; KHRISTIANOVICH, S.A., red.; SHERMAN, D.I., red.; RYVKIN, A.Z., red.izd-ve; VOLKOVA, V.V., tekhn.red.

[Problems in the mechanics of solids] Problemy mekhaniki sploshnoi sredy; k semidesiatiletiiu akademika N.I.Muskhelishvili. Moskva, 1961. 577 p. (MIRA 14:3)

1. Akademiya nsuk SSSR.
(Mechanics, Analytic) (Blastic solids)

\$/763/61/000/000/004/013

AUTHOR: Vekia, I.N.

Contribution to the theory of quasi-conformal representations. TITLE:

Nekotoryye problemy matematiki i mekhaniki. Novosibirsk, Izd-vo SOURCE:

Sib. otd. AN SSSR, 1961, 57-68.

Reference is made to M. A. Lavrent'yev's analytical and geometrical methods which constructed, in a certain sense, a definitive theory of quasi-conformal representations. The present paper develops a different approach to these problems, as an extension to the author's earlier work (AN SSSR, Dokl., v.100, no. 2, 1955, 197-200; and Obobshchennyye analiticheskiye funktsii [Generalized analytical functions]. Fizmatgiz, Moscow, 1959), which is based on the utilization of the properties of some singular integrals (Calderon, A., Zygmund, A., Am. J. Math., no. 78, 1956, 289-309. The method is distinguished by its ability to permit an effective construction of quasi-conformal representations for prescribed characteristics. Upon defining the purpose of the theory of quasi-conformal representations as the study of the properties of a special class of topological representations of a region of a surface of one complex variable in the region of another complex variable, the problem of the construction of the quasi-conformal representation with a specified

Card 1/2

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Contribution to the theory of quasi-conformal

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characteristic is reduced to the problem of finding the solutions of a Beltrami equation, which accomplish the topological mapping of one region into another and which the author terms the homeomorphisms of the Beltrami equation. An expression is provided for the generalization of the solution of the Beltrami equations which permits the expansion of the generalization of many properties of the analytical functions of one complex variable to the solutions of Beltrami equations. For example, without changes such important properties are conserved as the principle of the argument, the principle of the maximum modulus, the theory of uniqueness (the isolations of the nulls), et al. There are 5 references (3 Russian-language Seviet and 2 English-language, of which one in Russian translation).

Card 2/2

VEKU	A, I.N.
هده منهنوسيور وهما	Some properties of solutions of the Gauss equation. Trudy Mat.inst. 64:5-8 '61. (MIRA 15:3) (Curvature) (Geometry, Differential)
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VEKUA, I.N. SOV/6201 PHASE I BOOK EXPLOITATION Vsesoyuznyy s"yezd po teoreticheskoy i prikladnoy mekhanike. lst, Moscow, 1960. Trudy Vsesoyuznogo s"yezda po teoreticheskoy i prikladnoy mekhanike, 27 yanvarya -- 3 fevralya 1960 g. Obzornyye doklady (Transactions of the All-Union Congress on Theoretical and Applied Mechanics, 27 January to 3 February 1960. Summary Reports). Moscow, Izd-vo AN SSSR, 1962. 467 p. 3000 copies printed. Sponsoring Agency: Akademiya nauk SSSR. Natsional'nyy komitet SSSR po teoreticheskoy i prikladnoy mekhanike. Editorial Board: L. I. Sedov, Chairman; V. V. Sokolovskiy, Deputy Chairman; G. S. Shapiro, Scientific Secretary; G. Yu. Dzhanelidze, S. V. Kalinin, L. G. Loytsyanskiy, A. I. Lur'ye, G. K. Mikhaylov, G. I. Petrov, and V. V. Rumyantsev; Resp. Ed.: L. I. Sedov; Ed. of Publishing House: · A. G. Chakhirev; Tech. Ed.: R. A. Zamarayeva. Card 1/ \$ 3

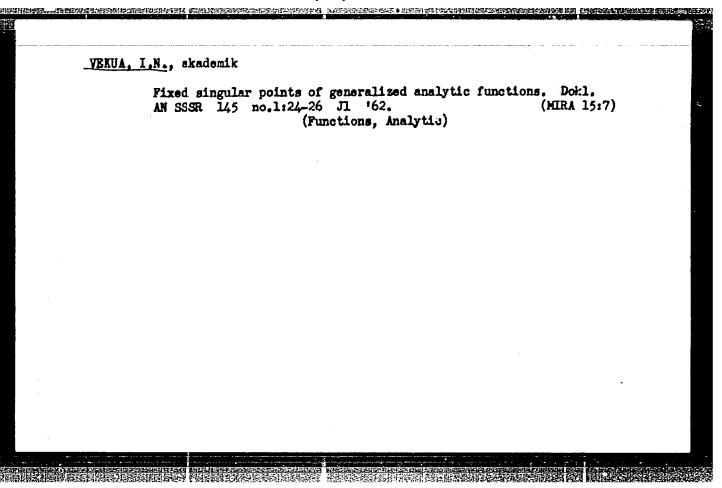
SOV/6201 Transactions of the All-Union Congress (Cont.) PURPOSE: This book is intended for scientific and engineering personnel who are interested in recent work in theoretical and applied mechanics. COVERAGE: The articles included in these transactions are arranged by general subject matter under the following heads: general and applied mechanics (5 papers), fluid mechanics (10 papers), and the mechanics of rigid bodies (8 papers). Besides the organizational personnel of the congress, no personalities are mentioned. Six of the papers in the present collection have no references; the remaining 17 contain approximately 1400 references in Russian, Ukrainian, English, German, Czechoslovak, Rumanian, French, Italian, and Dutch. TABLE OF CONTENTS: SECTION I. GENERAL AND APPLIED MECHANICS Artobolevskiy, I. I. Basic Problems of Modern Machine Dynamics Bogolyubov, N. N., and Yu. A. Mitropol'skiy. Analytic Methods of 25 the Theory of Nonlinear Oscillations

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VEKUA, I.N., akademik

New principles of teaching. Nauka i zhizn' 29 no.1:7 Ja '62.
(MIRA 15:3)

1. Rektor Novosibirskogo gosudarstvennogo universiteta.
(Novosibirsk University)



VEXUA, I.N., akademik

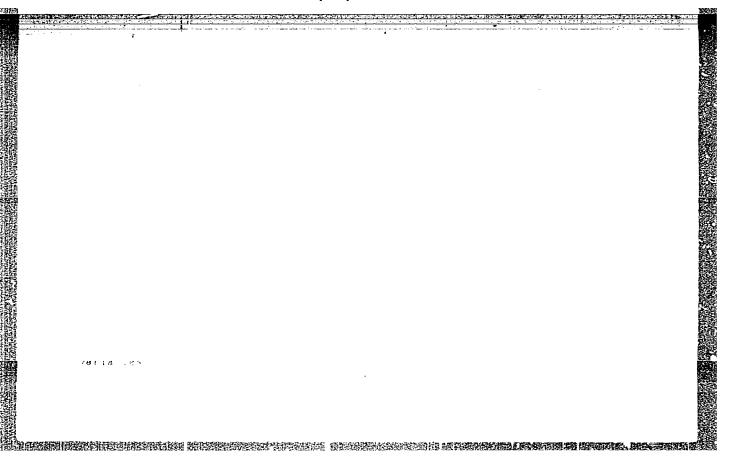
University at the Siberian Science Center, Vest. AN SSSR 34 no.6t12-20 Je '64 (MIRA 17:8)

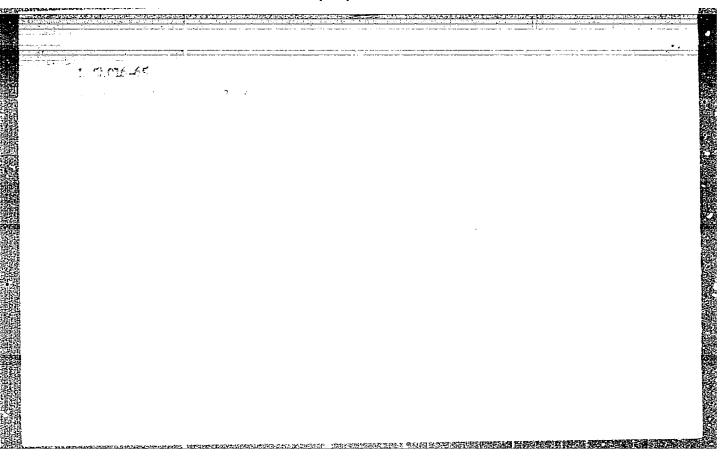
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1. Rektor Novosibirskogo universiteta.

VEKUA, Il'ya Nestorovich

[Fundamentals of tensor analysis; materials for the special course "Mathematical theory of shells" (read to students of Novosibirsk State University)] Osnovy tensornogo analiza; materialy k spetskursu "Matemati-cheskaia teoriia obolochek" (prochitan dlia studentov NGU). Novosibirsk, Novosibirskii gos. univ., 1964. 138 p. (MIRA 18:12)





VEKUA, Iliya Nestorovich

[A variant of the thin shallow shells theory; lectures for a specialized course "Mathematical theory of shells"] Ob odnem variante teorii tonkikh pologikh obolochek; lektii po spetskursu "Matematicheskaia teoriia obolochek." Novosibirski gos.univ., 1964. 67 p. (MIRA 17:11)

VEKUA, Il'ya Nestorovich

[Theory of thin and shallow shells of variable thickness; lectures for a special course in the "Mathematical theory of shells] Teoriia tonkikh i pologikh obolochek peremennoi tolshchiny; lektsil po spetskursu "Matematicheskaia teoriia obolochek." Novosibirsk, Novosibirskii gos.univ., 1964. 38 p. (MIRA 17:10)

那样的是我们是那种是不可以的的基本的开始。在1975年1986年,但这个年轻的企业的企业的企业的企业的企业的企业的企业的企业的,但如此的企业的企业的企业的企业的

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AUTHORS:

Nolia, M. and Vekua, L.

TITLE:

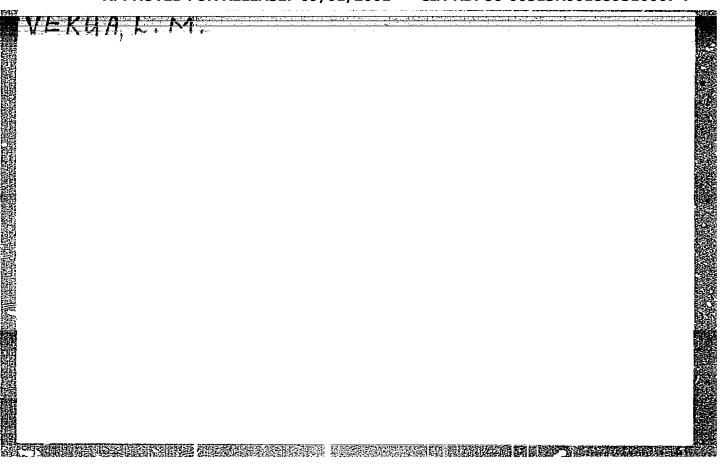
Results of investigating the secular variation at points near the Dushetskaya magnitnaya observatoriya (Dusheti Magnetic Observatory)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 28, abstract 5G201 (Tr. Tbilissk. un-ta, 86, 1960, 57-62)

TEXT: The results of investigations of local anomalies of the secular variation, carried out in 1952-1955 and 1958, are stated. The values of ΔZ were determined by a vertical magnetic balance on 9 traverses, on which the points of observation were located every 2 - 3 km. It is concluded that each point has its individual secular variation of an oscillatory character, as a result of which the secular variation for nearby points may appear to be approximately identical over a somewhat long interval of time. / Abstracter's note: Complete translation.

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Card 1/1



Methodology for use in studying paleoragnetic changes.
Soob.AM Grus.SSR 23 no.3:277-279 B '59.

(HIRA 13:3)

1. Tbilisskiy gosudarstvennyy universitet im.Stalina. Predstavleno akademikon V.D.Kupradse.
(Megnetism, Terrostrial)

VEKUA, I.V.

Some results of paleomagnetic investigation of eruptive rocks in Georgia. Izv. AN SSSR. Ser. geofiz. no.11:1668-1673 K '61.

(MIRA 14:11)

1. Tbilisskiy gosudarstvennyy universitet im. Stalina.

(Georgia--Rocks--Magnetic properties)

L 05249-67 EWT (1)/FUU GW

ACC NR. AP6018934 (N) SOURCE CODE: UR/0203/66/006/003/0613/0614

AUTHOR: Nodia, M. Z.; Vekua, L. V.; Chelidze, Z. A.; Pavlenishvili, Ye. Sh. 30

ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universitet)

TITLE: A method for studying the secular variations of the Earth's magnetic field before our era

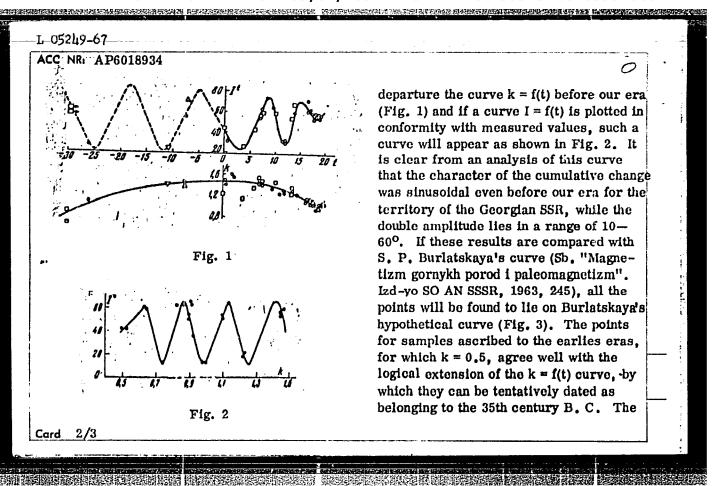
SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3 1966, 613-614

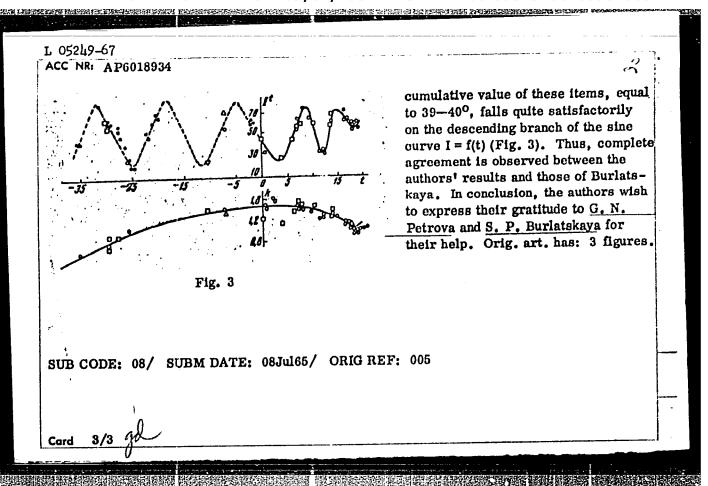
TOPIC TAGS: geomagnetic field, earth magnetic field, secular variation, paleontology

ABSTRACT: In order to obtain data on the secular variations of the Earth's magnetic field before our era, the authors collected more than 300 samples of 50 objects, for six of which the directions of the astronomic meridian were determined. Since these objects were only roughly dated, they could not be subjected to conventional research techniques and a new method for studying the secular variations of accumulation on the basis of these objects had to be devised. Recent theoretical work indicates that the absolute intensity value of the earth's magnetic field undergoes variations, the periodicity of which has yet to be established. On the Jasis of paleomagnetic data it may be assumed that this period is not less than 5,000 years, while the period of secular accumulation variations is in the order of 1,000 years. It one uses as a point of

Card 1/3

UDC: 550.384





MARUASHVILI, O.M.; BAKRADZE, T.L.; KANDBIAKI, Y.S.; VEKUA, M.A.; KARDAVA, A.G.

对方式的复数形式形式 经经验证据 网络拉拉拉拉 医杜拉拉氏试验检检验检验检验检验检验 医克里氏炎 化光光光光 计设计 经通过的 医阿拉拉氏 医拉耳氏病 医加克氏病 医加克氏病

Quinocide therapy in malaria. Med. paraz. i paraz. bol. 27 no.4: 406-408 Jl-Ag '58. (MIRA 12:2)

l. Iz Nauchno-issledovatel skogo instituta malyarii i meditsinskoy parazitologii imeni prof. S.S. Virsaladze (dir. - prof. G.M. Maruashwili), Respublikanskoy sanitarno-epidemiologicheskoy stantsii Abkhaz-skoy ASSR (glavnyy vrach V.L. Gvaliya) i Zuglidskoy rayonnoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach B.K. Gobechiya).

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VEKUA, M. A., ZIMIN, I.-A. and STIRNOVA, G. F.

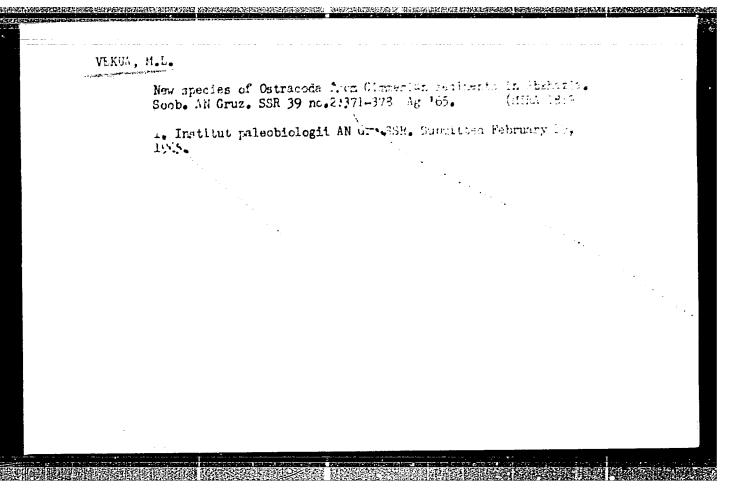
"Treatment of Using Dom stic Cheopodium Oil in Cases of Ascaridiasis and Ancylostomiasis", Med. Paraz. i Paraz. Bolez., Vol. 17, No. 5, pp 433-34, 1948.

PATENTALIST PERSONAL PRESIDENCE PROPERTY PROPERT

VEKUA, M. A., TSETSEPLADZE, M. I. and SMIRNOVA, G. F.

"Treatment of Ancylostomiasis With Chenorodium Oil", Med. Faraz. i Paraz. Bolez., Vol. 17, No. 5, pp 434-35, 1948.

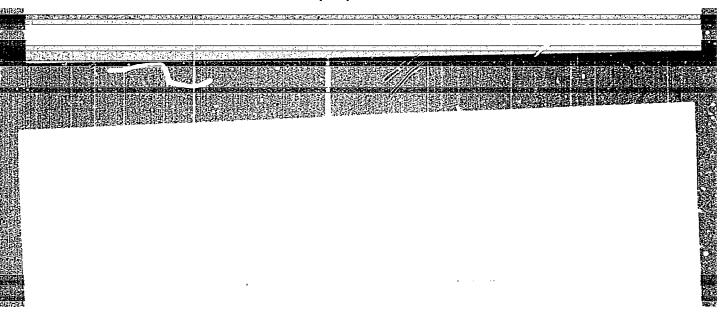
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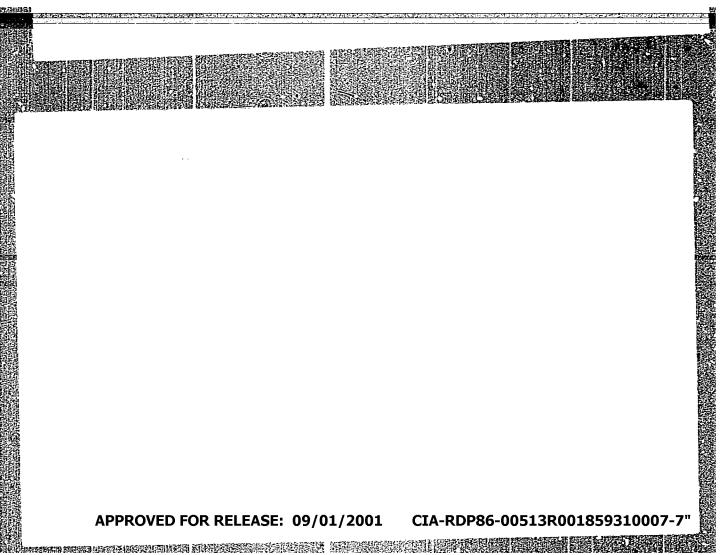


VEKUA, N. I., Candidate Med Sci (diss) -- "The effect of bottled Avadkhar mineral water (drilled well No 1) on the external secretory function of the pancreas of patients with chronic cholecystitis and gastritis". Moscow, 1959.

11 pp (Min Health RSFSR, State Inst of Spa Studies and Physiotherapy), 200 copies (KL, No 24, 1959, 149)

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VEXUA, N.P.

Generalization of a Hilbert boundary problem for several unknown functions. Seob.AN Gruz.SSR 8 no.9/10:577-584 147. (MIRA 9:7)

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut imeni A.H.Razmadze. Predstavleno akademikem N.I. Muskhelishvili.
(Differential equations) (Integral equations)

VEKUA, N.P. A generalised system of singular integral equations. Seeb.AM Grus.SSR 9 no.3:153-160 '48. (NIRA 9:7) 1.Akademiya nauk Grusinskey SSR, Tbilisskiy matematicheskiy institut imemi A.M.Razmadse. (Integral equations)

Vekua, N. P. The generalized Hilbert boundary problem for several unknown functions. Akad. Nauk Gruzin. SSR. Trudy Tbiliss. Mat. Inst. Razmadze 16, 81-103 (1948). (Georgian. Russian summary)

"The basic results have been announced in the Soob-steniya Akad. Nauk Gruzin. SSR 8, 577-584 (1947)" [see the paper reviewed above].

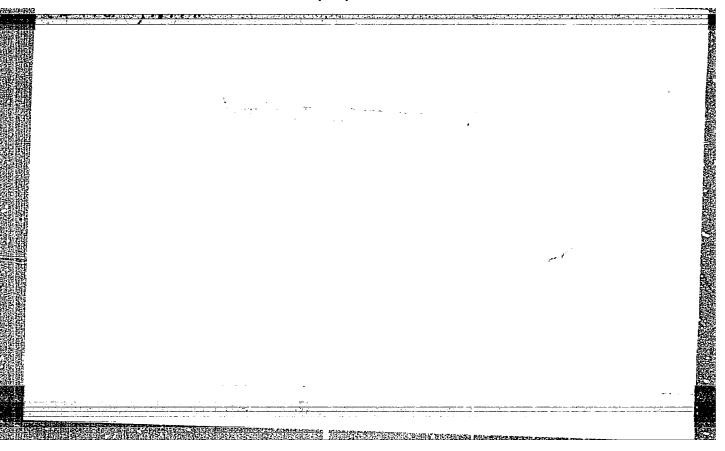
From the author's summary.

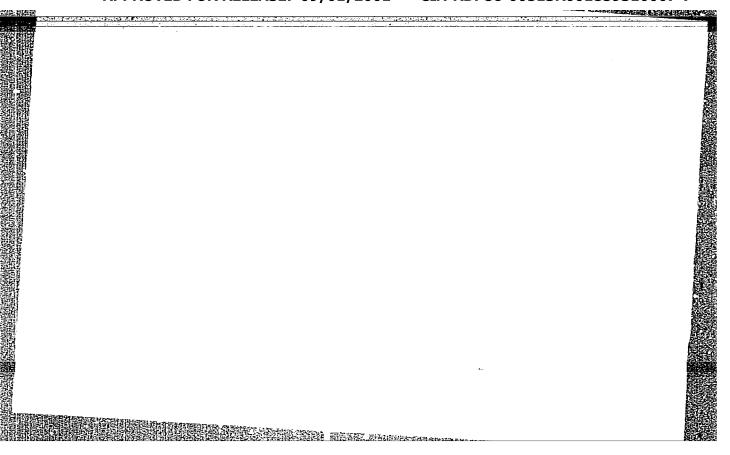
So: :ATHEIATICAL REVIEW (Unclassified)
Vol XIV No 2, Feb 1953 pp 121-232

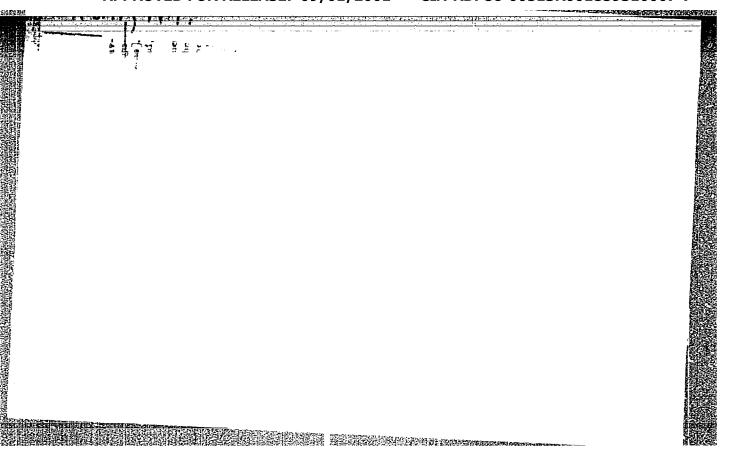
MINISTER .

Vekua, N. "Cn certain marginal problems of the theory of the logarithmic potential," Trudy Philis. gos. un-ta im. Stallna, Vol. XXXIV, a-c, 19h0, p. 311-27, (In Georgian, resume in "assian)

SO: U-h93h, 29 Oct 53, (Lotopis 'Zhurnal 'nykh Statey, N. 16, 19h9).



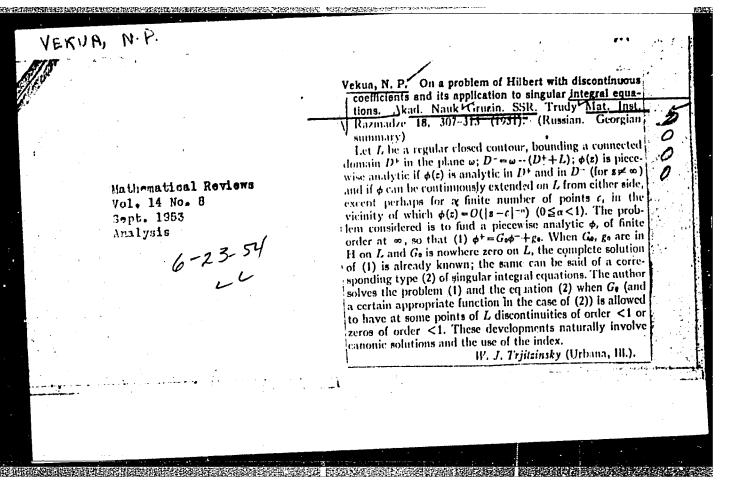




VEKUA, N. P.

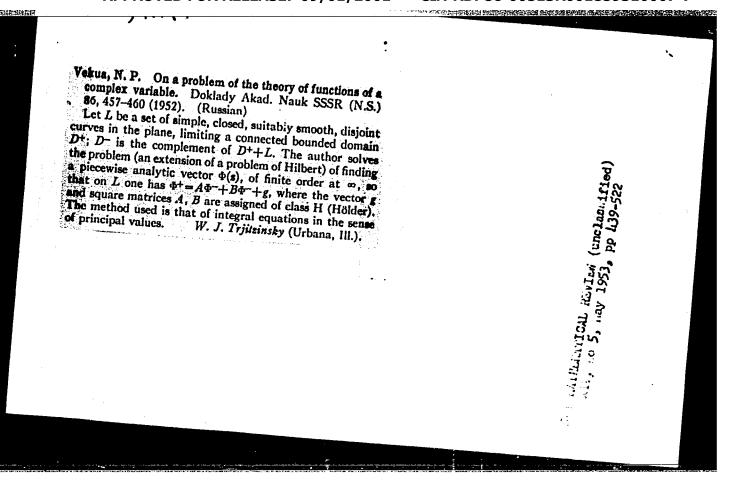
"Hilbert's Boundary Problem for Several Unknown Functions in the Case of Unconnected Regions," Soob. AN Georgian SSR, No.11, pp. 533-538, 1950

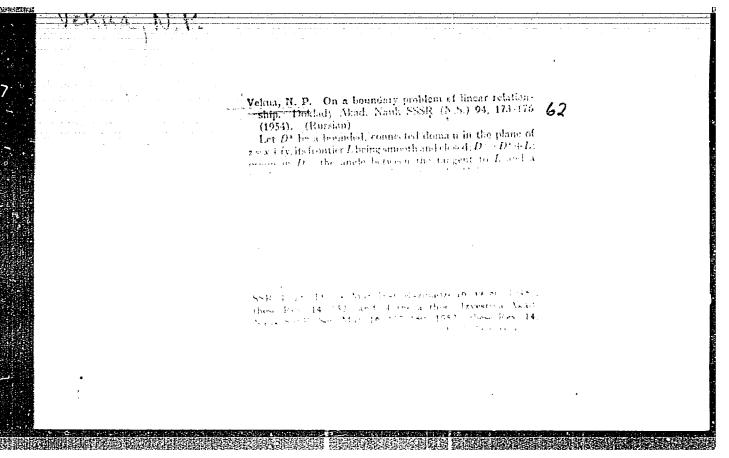
Mathematical Review, Vol. 14, No.8, pp. 713-830, 1953



Wekun, N. P. The Carleman boundary problem for several without functions. Scotteniya Akad. Nauk Gruzin. SSK 13, 9-14 (1952). (Russian) Let L'he a simple, closed, smooth contour limiting a	1
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(on L), the matrix $G(l_0) = (G_1/(l_0))(R, J = 1, \dots, s)$ and the vector $g(l_0) = (g_1, \dots, g_n)$ being assigned in H. The case $n = 1, \alpha[\alpha(l)] = 1$ has been solved by D, A. Kyesel val Akad. Nauk Gruzin. SSR. Trudy Tbiliss. Mat. Inst. Razmadze	
problem (1), when $n=1$ and $a(n') = 1$, had been seen, Zürich, by T. Carleman [Verh. Internat. MathKongre sees, Zürich, 1932, v. 1, Füssli, Zürich-Leipzig, 1932, pp. 13 –151]. The	
theory of integral equations in the sense of principal ville. W. J. Trilleinsky (Ur ann. III.).	,
A section of the second of the	
	angle made by the tangent to D is of this T (this assigned in H on L , $\alpha^{(i)}(t) \neq 0$ and $\alpha(t)$ transforms L one-to-one on itself, changing direction. It is said that $\phi(z)$ is meromorphic in D^+ (in D^-) if ϕ is analytic in D^+ (in D^-), except possibly at a finite number at most of poler, and if ϕ is continuously extendable on L . The author rolves the following problem: to find a vector $\phi = (\phi_1, \dots, \phi_n)$ meromorphic in D^+ so that (1) $\phi^+[\alpha(t_0)] = G(t_0)\phi^+(t_0) + g(t_0)$ (on L), the matrix $G(t_0) = (G_{k_1}(t_0))$ ($k, j = 1, \dots, n$) and the vector $g(t_0) = (g_1, \dots, g_n)$ being assigned in H . The case $n = 1$, $\alpha[\alpha(t)] = t$ has been solved by D , A . Kyesel val Akad. Nauk Gruzin. SSR. Trudy Tbiliss. Mat. Inst. Razmadze 16, 39-80 (1948); these Rev. 14, 152]. The homogeneous problem (1), when $n = 1$ and $\alpha[\alpha(t)] = t$, had been considered by T . Carleman [Verh. Internat. MathKongre ses, Zürich, 1932, v. 1, Füssli, Zürich-Leipzig, 1932, pp. 13 \vdash 151]. The author solves the problem completely with the aid of the

VEKUA, N. P.		eneralization of of eqs. Submitted 9 Nov 51.	USSR/Mathematics -	pp 1)(-100) Devoted to the soln of 2 In the theory of function One of these problems is case of several unknown set up by T. Carleman.	"A Boundary-Value Protions of a Complex Vitions of a Complex Vitions," N. P. Ve	ussa / Mathematics - Bo
	Ŋ	sation of Kiemann, F. I. Muskhelishvill Submitted by Acad N. I. Muskhelishvill	Boundary-Value Mar/Apr 52 Boundary-Value Variable Problem, Complex Variable (Contd)	le soln of 2 boundary-value problems of functions of a complex variable. The problems is a generalization to the problems is a generalization to the problem is a ral unknown functions in the problem is a Carleman. The other problem is a 206172	oundary-Value Problem in the Theory of Func- s of a Complex Variable For Several Unknown tions," N. P. Vekua Ak Mauk SSSR, Ser Matemat" Vol XVI, No 2,	Boundary-Value Mar/Apr 52 Problem, Complex Variable
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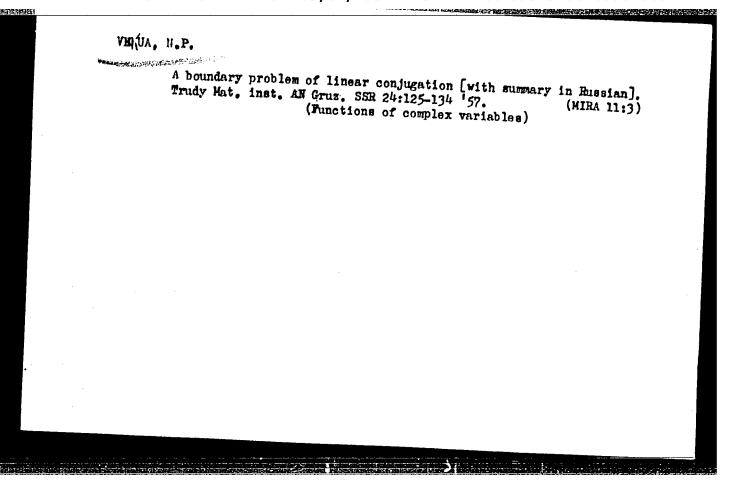


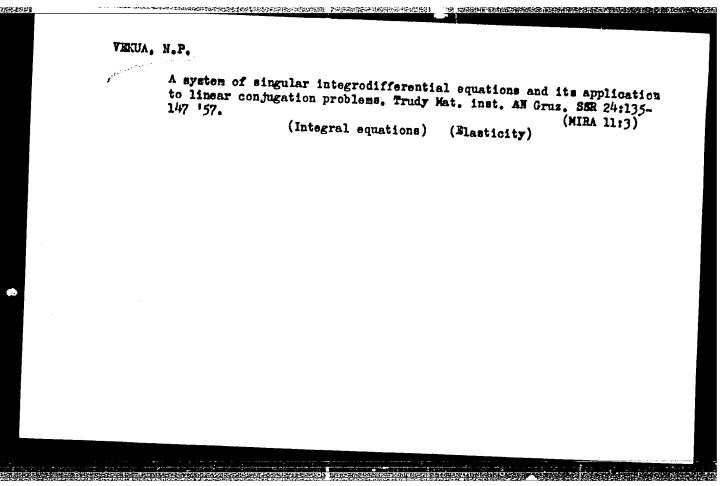


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PG - 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CARD 1/2
                                                                                                                                                                                                              On a boundary value problem of the linear conjugateness for assert unknown functions with given displacements.
                                                                                                                                                                                                         USSR/MATHEMATICS/Integral equations
                                                                                                                                                                                                                  on a boundary value provise of one timeal conjugates.

Several unknown functions with given displacements.
                                                                                                                                                                                                                    Trudy Thilissk. mat. Inst. Razmadza 21, 169-189 (1955)
                                                                          SUBJECT
                                                                            AUTHOR
                                                                                               Let D' be a finite domain in the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the plane of the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z = x + iy direction and the complex variable z 
                                                                                                  Which is bounded by a simple closed, smooth curve I. It is assumed that the and of I be that which lets It at the left hand side. It is assumed that the
                                                                                TITLE
                                                                                                      which is bounded by a simple closed, smooth curve L. The Fositive direction angle of L be that which lets Dt at the left hand side. It is assumed that the angle of L be that which lets Dt at the left hand side. satisfies a Holder conwhich the tangent forms at L with a fixed direction.
                                                                                      PERIODICAL
                                                                                                         which the tangent forms at L with a fixed direction, satisfies a molder condition. The functions \alpha_k(t), \alpha_k(t)
                                                                                                                are different from zero and may satisfy a Holder condition; &k(t) may map L
                                                                                                                    biuniquely onto itself by inversion of the orientation. The problem of the proble
                                                                                                                       biuniquely onto itself by inversion of the orientation. The problem of the probl
                                                                                                                                        \psi(z) = (\psi_1, \dots, \psi_n) in D<sup>+</sup> which satisfy the boundary condition
                                                                                                                                          here G_{ik}(t_0), g_j(t_0) are functions given on L which satisfy a Hölder condition,
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Trudy Tbilissk. mat. Inst. Razmadza 2: 169-189 (1955) CARD 2/2 PG - 139 with the determinant $\|G_{jk}(t_0)\|$ cowhere vanishing on L. From this boundary value problem, for $C_{i}(t) = \dots = C_{i}(t)$ one obtains the problem which the author has treated in an earlier paper (Izvestija Akad Nauk 16, 157-180 (1952)). The well known boundary value problem for several unknown functions due to (2) $\varphi^{\dagger} \left[c(t_0) \right] = G(t_0) + g(t_0) + g(t_0)$ where $G(t_0) = \left| \left| G_{jk}(t_0) \right| \right|$, $g(t_0) = \left(g_{+2}, \dots, g_{2n} \right)$. Carieman has considered the homogeneous problem in the case n = 1 $\alpha[\alpha(t)] = t$ but he has not given its complete solution. For n = 1, $\alpha[\alpha(t)] = t$ the problem (2) has been solved by Kveselava (Trudy Tbilissk.mat.Inst.Razmedze 16, 39-80(1948). For several unknown functions the author (1.c.) has solved the problem (2) under In the first part of the present paper the problem (1) is solved, in the second part the colution of Carleman's problem (2) for the case that (3) is (where $\alpha^{m}(t) = \alpha[\alpha^{m-1}(t)]$ denotes the m-fold iterate of $\alpha(t)$ is given. The method consists in the fact that the problem is reduced to certain systems of singulary integral equations of the normal type; it then leads to the





。 第一章,"我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们的人,我们就是我们的人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们的人,

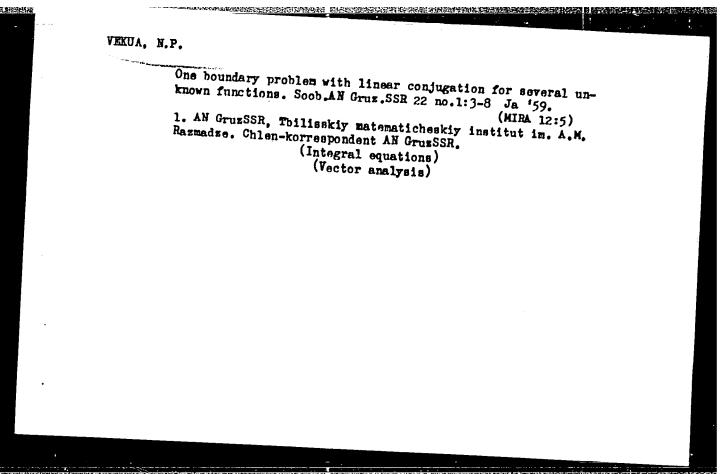
One differential boundary problem with linear conjugation for certain unknown functions in the case of interrupted contours.

Soob_AN Gruz_SSR 21 no.5:513-518 N *58. (MIRA 12:5)

1. AN GrusSSR, Tbilisskiy matematicheskiy institut im. A.M.

Razmadze. Chlen-korrespondent AN GruzSSR.

(Vector analysis) (Integral equations)



36992

16.4500

S/044/62/000/003/036/092 C111/C444

AUTHOR:

Vekua, N. P.

TITLE:

On a method for the solution of singular integro-diffe-

rential equations

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 3, 1962, 69, 70, abstract 3B294. ("Soobshch. AN Gruz SSR,", 1959, 23, no. 2, 129-134)

TEXT:

It is shown that the solution of the system of integro-

differential equations

differential equations
$$A(t) \frac{du(t)}{dt} + B(t)u(t) + \int_{L} \frac{K(t, \xi) u(\xi) + \Gamma(t, \xi) \frac{du(\xi)}{d\xi}}{\frac{\xi}{3} - t} d\xi = f(t)$$

can be reduced to the solution of the system of integral equations

$$\mu(t) + \int \left[\frac{b(t,\xi)}{\xi-t} + \phi(t,\xi) \right] \mu(\xi) d\xi = \phi(t)$$
 (1)

by use of the method of A. I. Nekrasov (Ob odnom klasse integro-diffe-Card 1/2

On a method for the solution ... S/044/62/000/003/036/092 rentsial nykh uravneniy on a class of integro-differential equations. Tr. Ts AGI, 1934, no. 190). A(t), B(t), K(t, $\frac{1}{5}$), $\frac{1}{5}$, b(t, $\frac{1}{5}$), $\frac{1}{5}$ are n × n matrices, L is an open smooth curve of the complex plane. (1) is a singular integral equation of the normal type, if there is

det $(E \stackrel{t}{=} \Gamma(t, t) A^{-1}(t)) \neq 0$.

[Abstracter's note: Complete translation.]

Card 2/2

16.4500

S/044/62/000/006/034/127 B158/B112

AUTHORS:

Vekua, N. P., Isakhanov, R. S.

TITLE:

One class of singular integral equations effectively solvable

PERIODICAL:

Referativnyy zhurnal. Matematika, no. 6, 1962, 77, abstract 6B324 (Soobshoh. AN GruzSSR, v. 23, no. 3, 1959, 257 - 264)

TEXT: A linear singular equation

 $a(t_0)\varphi(t_0) + \frac{b(t_0)}{\pi i} \sum_{p=0}^{m-1} \int_{t_0} \frac{\varphi(t)}{t - c_p(t_0)} dt + \sum_{q=1}^{m} A_q(t_0) \int_{t_0} B_q(t)\varphi(t) dt$ $= f(t_0), \qquad (1)$

where L is a simple closed smooth contour on the plane of a complex variable $(=x+iy, a(t_0), b(t_0), A_q(t_0), B_q(t_0), (q=1, 2, ..., m).$ $f(t_0)$ are given functions from the Hölder class, $\varphi(t)$ is an unknown function also from the Hölder class, $\omega_0(t_0) \equiv t_0$, $\omega_1(t_0)$, ..., $\omega_{n-1}(t_0)$ are Card 1/2

One class of singular integral ... S/044/62/000/006/034/127

linear rational functions forming a group. It is shown that by certain substitutions of the variables this equation may be reduced to an equation integrable in closed form. [Abstracter's note: Complete translation.]

Card 2/2

VEKUA, N.P.

Comments on my article "A boundary problem in linear conjugation for several unknown functions." Soob. AN Gruz. SSR 24 no. 1:3-6
Ja '60. (MIRA 14:5)

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im. A.M. Razmadze. Chlen-korrespondent AN GruzSSR.

(Differential equations)

32498 8/044/61/000/011/021/049 C111/C444 16.4500 Vekua. N. P. AUTHOR: Linear integrodifferential equations with small para-TITLE: meters at the highest derivatives PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1961, 43, 44, abstract 11B218. (Probl. mekhaniki sploshn.sredy, M., AN SSSR, 1961, 92 - 100) $L_{s} \rho_{a} \equiv \sum_{k=0}^{I} a_{m+k} \epsilon^{k} \rho_{a}^{(m+k)} (I) +$ TEXT: $+\sum_{l=0}^{m-1} \{a_{l}(t)\rho_{s}^{(l)}(t)+A_{l}\}.$ (1) where $A_j = \int_{0}^{\infty} K_j(t,\tau) \rho_{\lambda}^{(j)}(\tau) d\tau$, $a_{m+k} = \text{const}(k=0,1,...,n)$. $a_m \neq 0$, $a_{m+1} = 1$, $a_j(t)$ is continuous on [0, 1], (j = 0, ..., m-1), [0, 1] is a small parameter, [0, 1]. Considered is the Cauchy problem (k_{ξ}) for the equation L_{ξ} $g(t) = f_{\xi}(t)$ Card 1/3

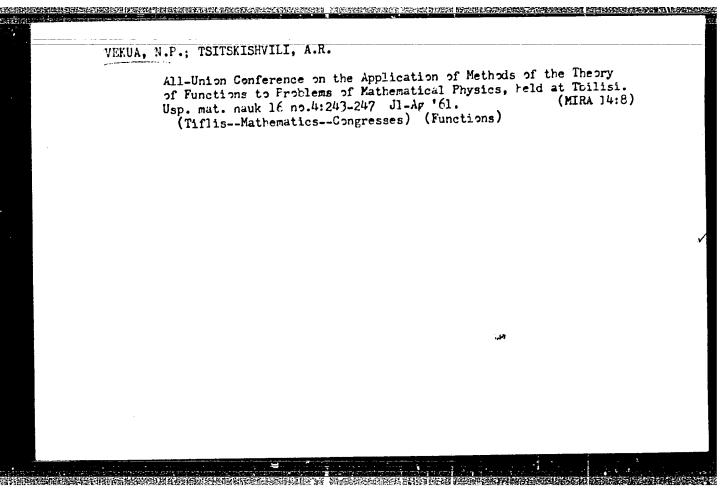
Card 2/3

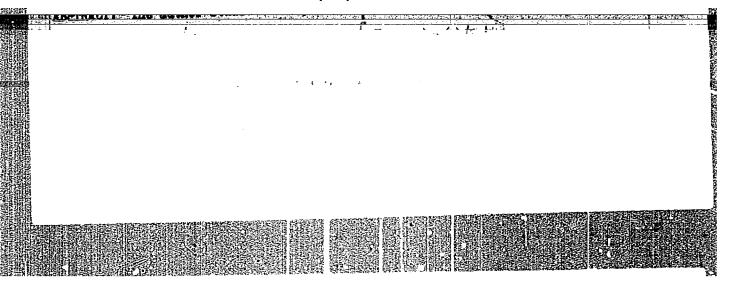
Linear integrodifferential equation... C111/C444

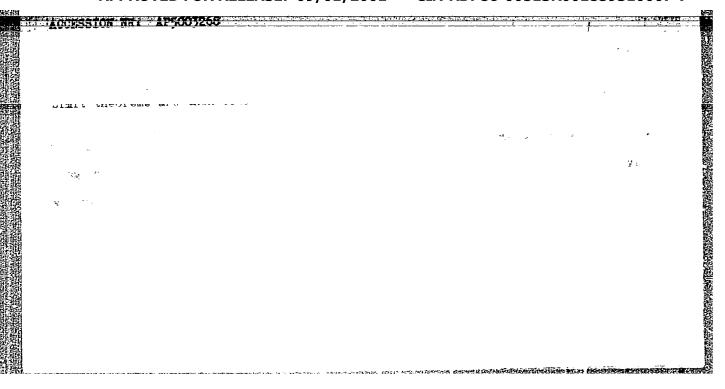
with the initial conditions $\rho^{(j)}(0) = 0$ (j = 0, 1, ..., m+l-1); one supposes that for the continuous function $f_{\epsilon}(t)$ it holds $f_{\epsilon}(t) = f(t) + O(\epsilon)$, the equation $\sum_{k=0}^{l} a_{m+k} v^k = 0$, does not possess any multiple roots, and that the real parts of the roots V_k are negative. Besides the Cauchy problem (k_0) is considered for the degenerated equation ($\epsilon = 0$): $\rho^{(j)}(0) = 0$, ($\epsilon = 0$), $\epsilon = 0$, $\epsilon = 0$, and $\epsilon = 0$, $\epsilon = 0$, and $\epsilon = 0$, $\epsilon = 0$, and $\epsilon = 0$, $\epsilon = 0$

Linear integrodifferential equation $\frac{32498}{5/044/61/000/011/021/029}$ value, and $\int_{\mathbf{j}} (\mathbf{t}, \mathbf{T})$ satisfies the Hölder condition on [0, 1] with respect to both variables. Besides the problem (\mathbf{k}_0) is considered for the degenerated equation. It is proved that if the problem (\mathbf{k}_0) does possess a unique solution in this last case, then the problem (\mathbf{k}_1) has a unique solution $\int_{\mathbf{f}} (\mathbf{t})$ for sufficiently small 1, which converges for $\mathbf{f} > 0$ to the solution of problem (\mathbf{k}_0) . [Abstracter's note: Complete translation.]

Card 3/3







AUTHOR: Vekua, M. P. TITLE: System of nonlinear differential equations with small parameter SOURCE: Ref. zh. Matematika, Abs. 12B260 REF SOURCE: Tr. Tbilissk. un-ta, v. 110, 1965, 25-32 TOPIC TAGS: nonlinear differential equation, differential equation system, small parameter ABSTRACT: Consider the system of nonlinear differential equations with small parameter **\frac{dx_1}{dt} = \textit{X_1}(x_1, \ldots, x_n) = \textit{\rho_1}(x_1 + \ldots + \textit{\rho_1}(x_1, \ldots, x_n)) **\frac{dx_1}{dt} = \textit{\rho_1}(x_1, \ldots, x_n) = \textit{\rho_1}(x_1 + \ldots + \textit{\rho_1}(x_1, \ldots, x_n)) **where 2 7 0 is a small parameter, \$p_{1k}\$ are constants, \$X_1^*(x_1, \ldots, x_n)\$ in some region \$x_1 \leq \theta\$ are decomposed into series in powers of \$x_1, x_2, \ldots, x_n\$, beginning with terms of not less than second order. By using the substitution \$t = \textit{\textit{\rho_1}(x_1, \ldots, x_n)}\$. (2) **Cord 1/2**	AIS AIR AIR		nerdanistica successiona americanica educas exercisis pou e de mestro democraticamente exercisio mendicamente m
TITLE: System of nonlinear differential equations with small parameter SOURCE: Ref. zh. Matematika, Abs. 12B260 REF SOURCE: Tr. Tbilissk. um-ta, v. 110, 1965, 25-32 TOPIC TAGS: nonlinear differential equation, differential equation system, small parameter ABSTRACT: Consider the system of nonlinear differential equations with small parameter $\frac{dz_1}{dt} = X_1(x_1, \dots, x_n) = p_{t_1}x_1 + \dots + p_{t_n}x_n + \dots$		-	L 45390-66 EWT(d) LJP(c) ACC NR: AR6016607 SOURCE CODE: UR/0044/65/000/012/E048/B049
SOURCE: Ref. zh. Matematika, Abs. 12B260 REF SOURCE: Tr. Tbilissk. un-ta, v. 110, 1965, 25-32 TOPIC TAGS: nonlinear differential equation, differential equation system, small parameter ABSTRACT: Consider the system of nonlinear differential equations with small parameter $ \frac{dx_1}{dt} = X_t(x_1, \dots, x_n) = p_{t_1}x_1 + \dots + p_{t_n}x_n + x_t^*(x_1, \dots, x_n). $ where $\varepsilon > 0$ is a small parameter, p_{ik} are constants, X_1^* (x_1, \dots, x_n) in some region $ x_1 < 1$ h are decomposed into series in powers of x_1, x_2, \dots, x_n , beginning with terms of not less than second order. By using the substitution $t = \varepsilon \tau$, one can rewrite system (1) as: $\frac{dx_1}{d\tau} = p_{t_1}x_1 + \dots + p_{t_n}x_n + X_t^*(x_1, \dots, x_n). \qquad (2)$			AUTHOR: Vekua, N. P. TITLE: System of nonlinear differential equations with small parameter
TOPIC TAGS: nonlinear differential equation, differential equation system, small parameter ABSTRACT: Consider the system of nonlinear differential equations with small parameter $\frac{dx_1}{dt} = X_t(x_1, \dots, x_n) = p_{t_1}x_1 + \dots + p_{t_n}x_n + x_t^*(x_1, \dots, x_n).$ (1) where $\epsilon > 0$ is a small parameter, p_{ik} are constants, X_1^* (x_1, \dots, x_n) in some region $ x_i \le h$ are decomposed into series in powers of x_1, x_2, \dots, x_n , beginning with terms of not less than second order. By using the substitution $t = \epsilon T$, one can rewrite system (1) as: $\frac{dx_1}{dx} = p_{t_1}x_1 + \dots + p_{t_n}x_n + X_t^*(x_1, \dots, x_n).$ (2)			
parameter ABSTRACT: Consider the system of nonlinear differential equations with small parameter $\frac{dx_1}{dt} = X_t(x_1, \dots, x_n) = p_{t_1}x_1 + \dots + p_{t_n}x_n + x_t^*(x_1, \dots, x_n).$ (1) where $\xi > 0$ is a small parameter, p_{ik} are constants, X_1^* (x_1, \dots, x_n) in some region $ x_1 \le h$ are decomposed into series in powers of x_1, x_2, \dots, x_n , beginning with terms of not less than second order. By using the substitution $h = \xi T$, one can rewrite system (1) as: $\frac{dx_1}{dx} = p_{t_1}x_1 + \dots + p_{t_n}x_n + X_t^*(x_1, \dots, x_n).$ (2)			REF SOURCE: Tr. Tbilissk. un-ta, v. 110, 1965, 25-32
parameter $\frac{dx_i}{dt} = X_i(x_1, \dots, x_n) = p_{i1}x_1 + \dots + p_{in}x_n + x_i^*(x_1, \dots, x_n).$ (1) where $\xi > 0$ is a small parameter, p_{ik} are constants, X_1^* (x_1, \dots, x_n) in some region $ x_i < 1$ hare decomposed into series in powers of x_1, x_2, \dots, x_n , beginning with terms of not less than second order. By using the substitution $t = \xi T$, one can rewrite system (1) as: $\frac{dx_i}{dx} = p_{i1}x_1 + \dots + p_{in}x_n + X_i^*(x_1, \dots, x_n).$ (2)			TOPIC TAGS: nonlinear differential equation, differential equation system, small parameter
where $z > 0$ is a small parameter, p_{ik} are constants, X_1^* $(x_1,, x_n)$ in some region $ x_i \le h$ are decomposed into series in powers of $x_1, x_2,, x_n$, beginning with terms of not less than second order. By using the substitution $t = \varepsilon T$, one can rewrite system (1) as: $\frac{dx_i}{d\tau} = p_{i1}x + + p_{in}x_n + X_i^*(x_1,, x_n).$ (2)			parameter $\frac{dx_i}{dt} = X_i (x_1, \dots, x_n) = p_{i_1} x_1 + \dots + p_{i_n} x_n + \dots + p_$
$ x_i \le h$ are decomposed into series in powers of x_1, x_2, \dots, x_n , beginning with the substitution $x_i = x_i$ one can rewrite system (1) as: $\frac{dx_i}{dx} = p_{i,x} + \dots + p_{i,n}x_n + X_i^*(x_1, \dots, x_n).$ (2)			$+X_1(x_1,\ldots,x_n)$.
not less than second order. By using the substitution $t = \mathcal{E}(t)$, one can rewrite system (1) as: $\frac{dx_i}{dt} = p_{i1}x + \dots + p_{in}x_n + X_i^*(x_1, \dots, x_n). \tag{2}$			where g 70 is a small parameter, pik
(1) as: $\frac{dx_l}{dx} = p_{l_1}x_1 + \dots + p_{l_n}x_n + X_l^*(x_1, \dots, x_n). $ (2)			not less than second order. By using the substitution t = ET, one can rewrite system
Card 1/2 UDC: 517.917		,	(1) as: $\frac{dx_{l}}{dx} = p_{l_{1}}x + \dots + p_{l_{n}}x_{n} + X_{l}^{*}(x_{n}, \dots, x_{n}). $ (2)
			Card 1/2 UDC: 517.917
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	_	Lyapunov for thi	s system, one e roots of the	finds that the characterist	ne follow tic equati	ing ion of
the approxim	ate system	$\det (P - E\lambda) = 0$ $\text{strix. } P = \ p_{xx}\ .$	As & → 0 th	(3) e limit of the	solution	n of
		tem (1) coincides . 0, i.e., if the				
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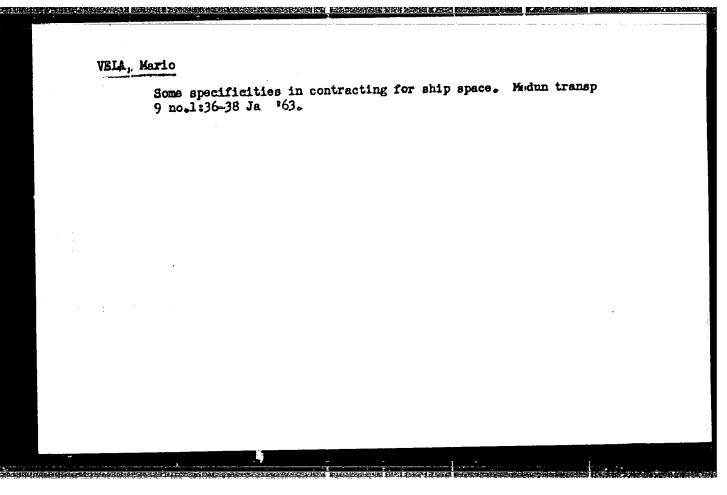
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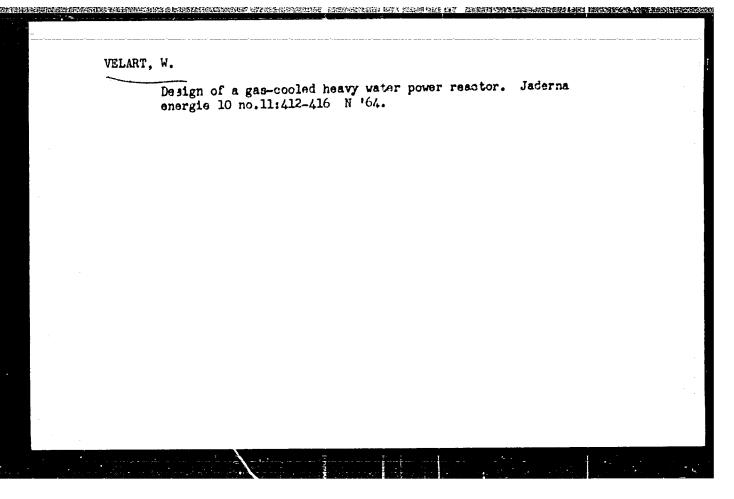
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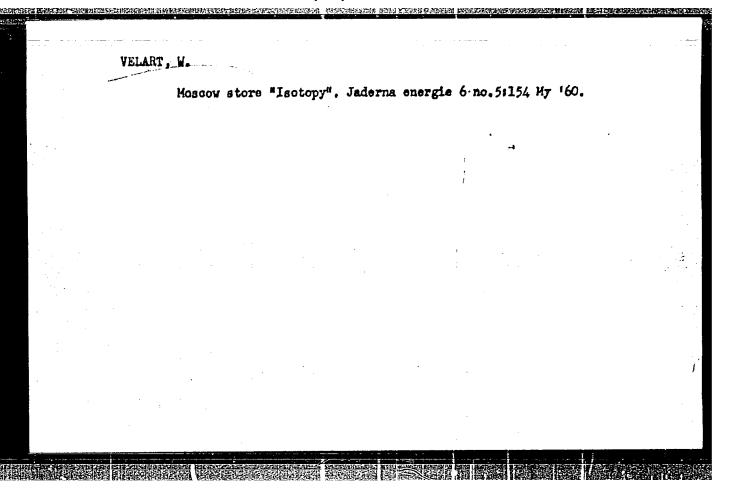
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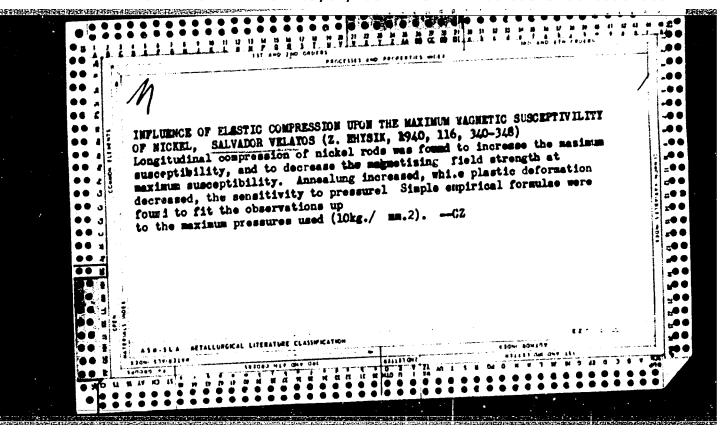
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